

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Vijay Kumar HANDA

Confirmation No.: 5709

Patent No.: 7,126,005 B2

Application No.: 10/735,892

Patent Date: October 24, 2006

Filing Date: December 16, 2003

For: PROCESS FOR PREPARING
FLORFENICOL

Attorney Docket No.: 7893-4000

REQUEST FOR CERTIFICATE OF CORRECTION UNDER 37 C.F.R. § 1.322

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Patentees hereby respectfully request the issuance of a Certificate of Correction in connection with the above-identified patent. The corrections are listed on the attached Form PTO-1050. The corrections requested are as follows:

At column 15, lines 54-65, after "to obtain the compound of Formula XI", delete "and"; and replace the structure on lines 56-63 with the following:

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; and --

Support for this change appears in application claim 21.

The requested correction is for an error that appears to have been made by the Office. Therefore, no fee is believed to be due for this request. Should any fees be required, however, please charge such fees to Winston & Strawn LLP Deposit Account No. 50-1814. Please issue a Certificate of Correction in due course.

Respectfully submitted,

17 November 2006
Date


Scott H. Blackman (Reg. No. 34,088)

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202-282-5795

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO.: 7,126,005 B2
APPLICATION NO.: 10/735,892
DATED: October 24, 2006
INVENTOR(S): Handa et al.

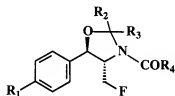
Page 1 of 1

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 15

Lines 54-65, after "to obtain the compound of Formula XI", delete "and"; and replace the structure on lines 56-63 with the following:

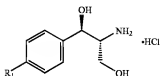
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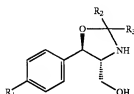
; and --

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reacting the compound of Formula VIII



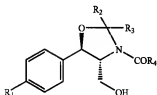
with an agent in the presence of a first organic base and a first organic solvent to produce a compound of Formula IX



wherein R_2 is an alkyl, haloalkyl, cycloalkyl, alkenyl, alkynyl, alkoxy, aralkyl, aralkenyl, aryl or aromatic heterocyclic group; and

R_3 is a hydrogen, alkyl, haloalkyl, cycloalkyl, alkenyl, alkynyl, alkoxy, aralkyl, aralkenyl, aryl or aromatic heterocyclic group;

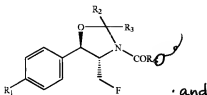
converting the compound of Formula IX to a compound of Formula X:



wherein R_4 is a hydrogen, alkyl, haloalkyl, cycloalkyl, phenyl or phenylalkyl group, where the phenyl ring may be substituted by one or two halogen, alkyl, alkoxy or nitro groups, by reacting the compound of Formula IX with $R_4\text{COCl}$ in the presence of a second organic base in a second organic solvent to produce the compound of Formula X;

fluorinating the compound of Formula X with a fluorinating agent in the presence of a third organic solvent to obtain the compound of Formula XI

and



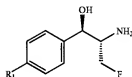
further processing the compound of Formula XI to obtain the compound of Formula VII.

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2. The process of claim 1, wherein the processing of the compound of Formula XI comprises hydrolyzing the compound of Formula XI with an acid to obtain the compound of Formula XII

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and

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N-acylating the compound of Formula XII with dichloroacetic acid or a reactive derivative thereof to obtain the compound of Formula VII.

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3. The process according to claim 1, wherein the agent is acetone, 2-methoxypropene or 2,2-dimethoxypropane.

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4. The process according to claim 3, wherein the agent is acetone.

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5. The process according to claim 4, wherein the compound of Formula VIII is heated in about eight to ten times by volume of acetone.

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6. The process according to claim 1, wherein the first organic solvent is acetone, toluene, xylene, hexane or a mixture thereof.

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7. The process according to claim 1, wherein at least either the first or second organic base is an alkylamine.

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8. The process according to claim 7, wherein the alkylamine is triethylamine.

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9. The process according to claim 1, wherein in the compound of Formula IX is obtained by reacting the compound of Formula VIII with acetone at a temperature of about 50° C. to about 60° C. in the presence of an alkylamine.

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10. The process according to claim 1, wherein the fluorinating agent is N-(2-chloro-1,1,2-trifluoroethyl) diethylamine, N-(2-chloro-1,1,2-trifluoroethyl) dimethylamine, N-(2-chloro-1,1,2-trifluoroethyl) dipropylamine, N-(2-chloro-1,1,2-trifluoroethyl) pyrrolidine, N-(2-chloro-1,1,2-trifluoroethyl) 2-methylpyrrolidine, N-(2-chloro-1,1,2-trifluoroethyl) 4-methylpiperazine, N-(2-chloro-1,1,2-trifluoroethyl) morpholine, N-(2-chloro-1,1,2-trifluoroethyl) piperidine, or N-(1,1,2,3,3,3-hexafluoropropyl) diethylamine.

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11. The process according to claim 10, wherein the fluorinating step of the compound of Formula X is carried out using (1,1,2,3,3,3-hexafluoropropyl) diethylamine.

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12. The process according to claim 11, wherein the molar ratio of N-(1,1,2,3,3,3-hexafluoropropyl) diethylamine to the compound of Formula X is between 1:1 and 3:1.

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13. The process according to claim 12, wherein the molar ratio of N-(1,1,2,3,3,3-hexafluoropropyl) diethylamine to the compound of Formula X is about 2:1.

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14. The process according to claim 1, wherein the fluorinating step is carried out at a temperature of about 80° C. to about 110° C. and at a pressure of about at least 60 psi.

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15. The process according to claim 1, wherein the second or third organic solvent is acetonitrile, ethyl acetate, methylene chloride, chloroform, chlorobenzene, or another chlorinated hydrocarbon.

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16. The process according to claim 15, wherein the second or third organic solvent is methylene chloride.

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17. The process according to claim 2, wherein the acid is an inorganic acid.